ORDER NO. GAD8612627C1
A1

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-SR25

(Black)

This is the Service Manual for the following areas.

M ··· For U.S.A.

C ··· For Canada.

RX-SR25 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	Battery; 3V (two "AA" size Penlight batteries) (Panasonic UM-3 or equivalent)
Power Output:	35mW+35mW...RMS max.
Input:	EXT. MIC; sensitivity 0.25mV/ applicable microphone impedance 200~600Ω (φ3.5) DC IN; 3V
Output:	Headphones; 32Ω, φ3.5
Dimensions:	$3^{5}/_{16}$"(W)×$5^{1}/_{16}$"(H)×$1^{7}/_{16}$"(D) (8.45cm (W)×12.85cm (H)×3.65cm (D))
Weight:	290g (10.2oz) without batteries

Radio Section:

Radio Frequency Range:	FM; 88~108MHz AM; 525~1610kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 2.5μV/0.5mW (−3dB Limit, Sens) AM; 251μV/m/0.5mW output

Tape Deck Section:

Frequency Response:	100~8,000Hz (with normal tape)
Recording System:	AC bias, Magnet erase
Tape Speed:	$1^{7}/_{8}$ips (4.8cm/s)
Track System:	4-track 2-channel stereo recording and playback

Weights and dimensions shown are approximate.
(Les poids et dimensions mentionnes sont approximatifs.)
Design and specifications are subject to change without notice.

Panasonic®

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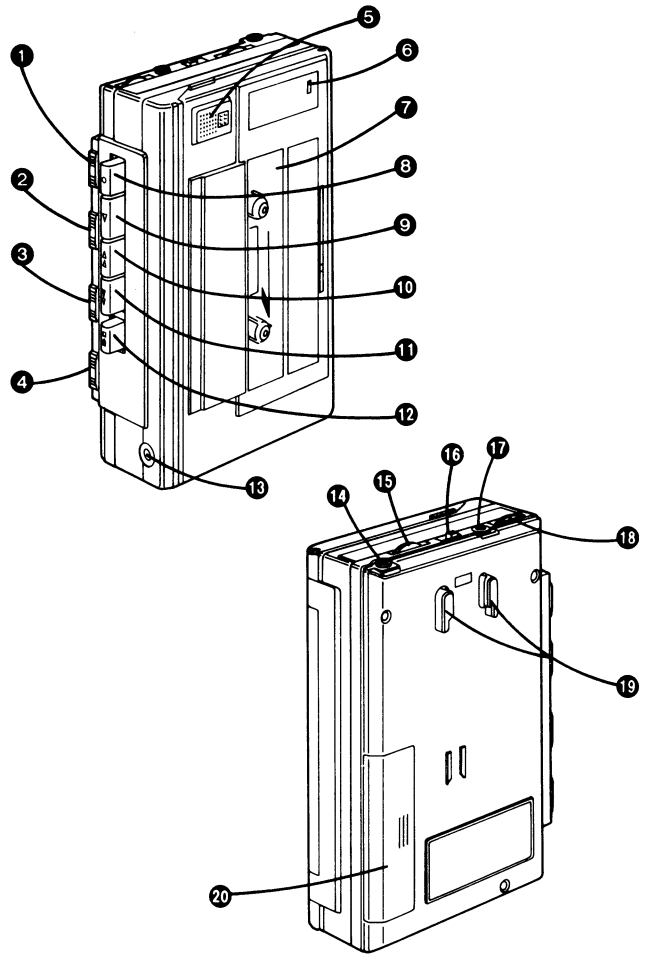
LOCATION OF CONTROLS AND COMPONENTS



❶ FM Sensitivity Selector (FM SENS)
❷ Tape Selector/Beat Proof Switch (TAPE/B.P)
❸ Function Selector (SELECTOR)
❹ Pause Switch (PAUSE)
❺ Built-in Microphone (MICROPHONE)
❻ FM Stereo Indicator (FM STEREO)
❼ Cassette Compartment
❽ Record Button (● REC)
❾ Playback Button (▼ PLAY)
❿ Rewind/Review Button (⏫ REW/REV)
⓫ Fast Forward/Cue Button (⏬ FF/CUE)
⓬ Stop/Eject Button (■/⏏ STOP/EJECT)
⓭ DC Input Jack (DC IN 3 V ⊖-⊙-⊕)
⓮ Headphones Jack ( ) [32Ω, φ3.5]
⓯ Tuning Control (TUNING)
⓰ Band Selector (BAND)
⓱ Stereo Microphone Jack (ST MIC)
[0.25 mV/200~600Ω/φ3.5]
⓲ Volume Control (VOLUME)
⓳ Clip Receptacle
⓴ Battery Compartment

BATTERY SERVICE LIFE

UM-3 (AA-size) Batteries
Approx. 2 hours of recording (EIAJ)
Approx. 2.6 hours of playback (EIAJ) with volume set at 3/4 position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

DISASSEMBLY INSTRUCTIONS

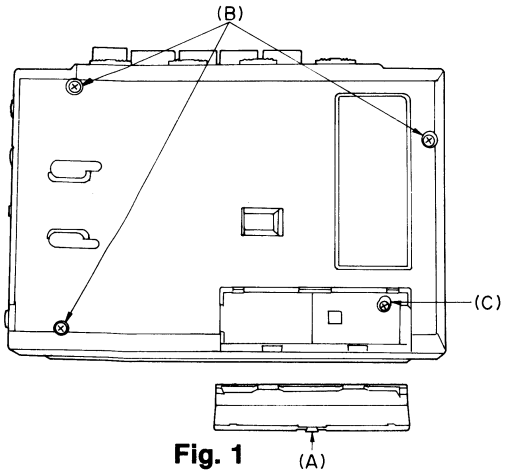


Fig. 1

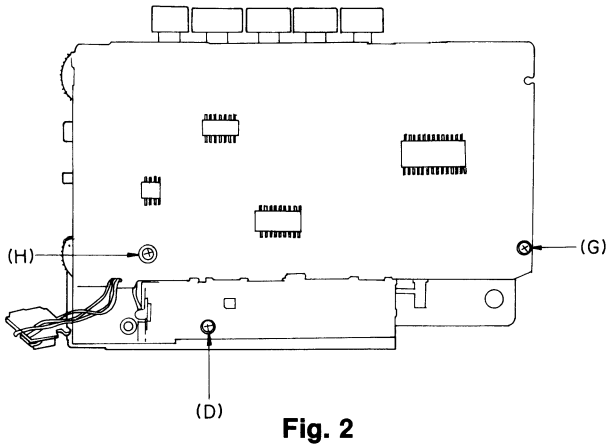


Fig. 2

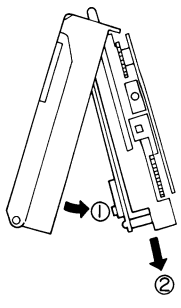


Fig. 3

■ Remove the Rear Cabinet

1. Remove the battery cover (A). (Fig. 1)
2. Remove the screw (B) (2 × 24) mm × 3. (Fig. 1)
3. Remove the screw (C) (2 × 5) mm × 1. (Fig. 1)

■ Remove the Mechanism & Circuit Board

1. Remove the screw (D) (2 × 4) mm × 1. (Fig. 2)
2. Remove the mechanism & circuit board in the direction of arrow ①, ②. (Fig. 3)

■ Remove the DC IN Jack Circuit Board

1. Remove the screw (E) (1.7 × 2.5) mm × 1. (Fig. 4)

■ Remove the LED Circuit Board

1. Remove the screw (F) (2 × 4) mm × 2. (Fig. 5)

■ Remove the Mechanism

1. Remove the screw (G) (1.7 × 3) mm × 1. (Fig. 2)

D

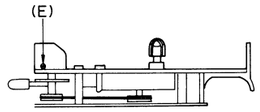


Fig. 4

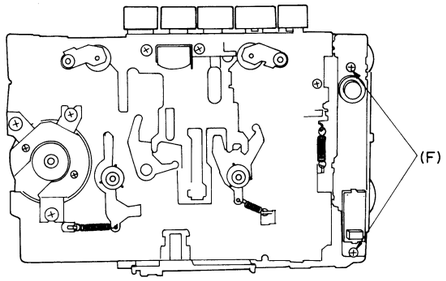


Fig. 5

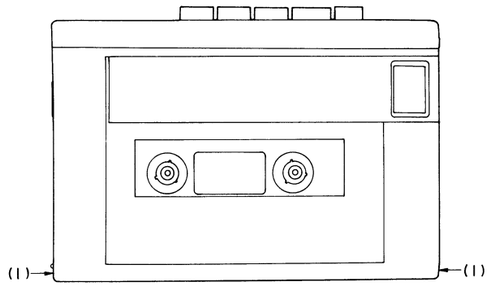


Fig. 6

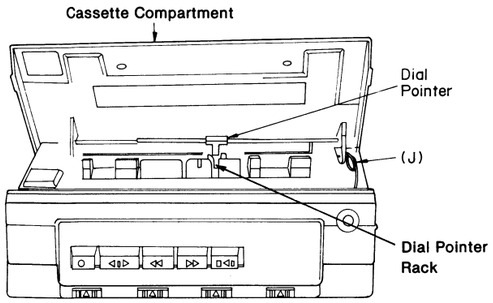


Fig. 7

■ Remove the Dial Chassis

1. Remove the screw (H) (2×5)mm×1. (Fig. 2)

■ Remove the Cassette Compartment

1. Remove the screw (I) (2×10)mm×2. (Fig. 6)
2. Remove the spring (J)×1. (Fig. 7)

Note: The dial Pointer falls off easily when the cassette compartment is removed, so be careful not to drop it or lose it.

■ Caution on attachment of Dial Chassis to Main Circuit Board

Line up the band knob and the band select switch (S1) boss and securely attach the dial chassis. (Fig. 8)

■ Caution on assembly of Rear Cabinet

Line up each switch with its respective switch boss, and securely attach the rear cabinet. (Fig. 9)

■ Caution on assembly of Cassette Compartment

Line up the dial pointer and the dial pointer rack, and securely attach the cassette compartment. (Fig. 7)

■ Dial Setting Point

1. Turn the drum gear fully in the direction of the arrow ③. (Fig. 10)
2. Set the pointer to mark. (Fig. 11)
3. Attach the dial chassis to the main circuit board.

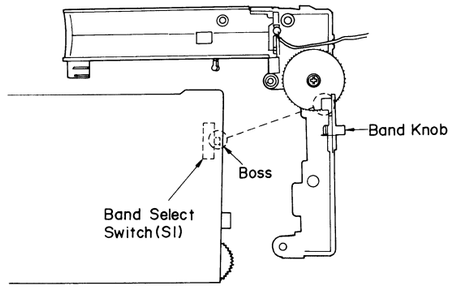


Fig. 8

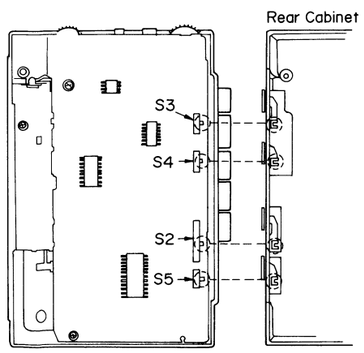


Fig. 9

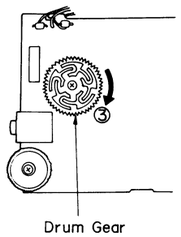


Fig. 10

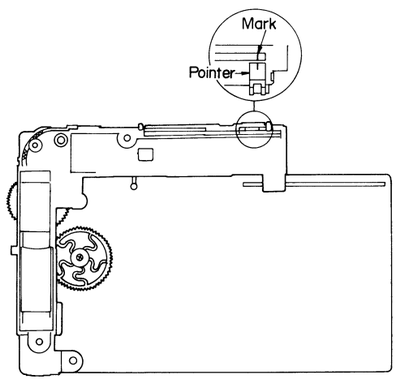


Fig. 11

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set band switch to AM or FM ST.
3. Set selector switch to radio or Tape.
4. Set power source voltage to 3V DC.
5. FM Sens switch to DX.
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		AM-IF ALIGNMENT					
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	〃	511kHz	Tuning capacitor fully closed.	〃	L4 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,670kHz	Tuning capacitor fully open.	〃	CT4 (AM OSC Trimmer)	〃
(4)	AM	〃	550kHz	Tune to signal.	〃	(∗1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(5)	AM	〃	1,500kHz	〃	〃	CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).

(∗1) Cement antenna bobbin with wax after completing alignment.

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001μF to test point ③. Negative side to test point ②.	10.7MHz (SWP.)	Point of non-interference. (on/ about 90MHz)	Connect vert. amp. of scope to test point ③. Negative side to test point ⑦.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3.)
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point ① through FM dummy antenna. Negative side to test point ②.	86.2MHz	Variable capacitor fully closed.	Output meter across voice coil.	L1 (FM OSC Coil)	(∗2) Adjust for maximum output.
(4)	FM		109.2MHz	Variable capacitor fully open.	〃	CT1 (FM OSC Trimmer)	〃
(5)	FM		90MHz	Tune to signal.	〃	L2 (FM ANT Coil)	〃
(6)	FM		106MHz	〃	〃	CT2 (FM ANT Trimmer)	(∗2) Adjust for maximum output. Repeat steps (3)~(6).

(∗2) Three output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

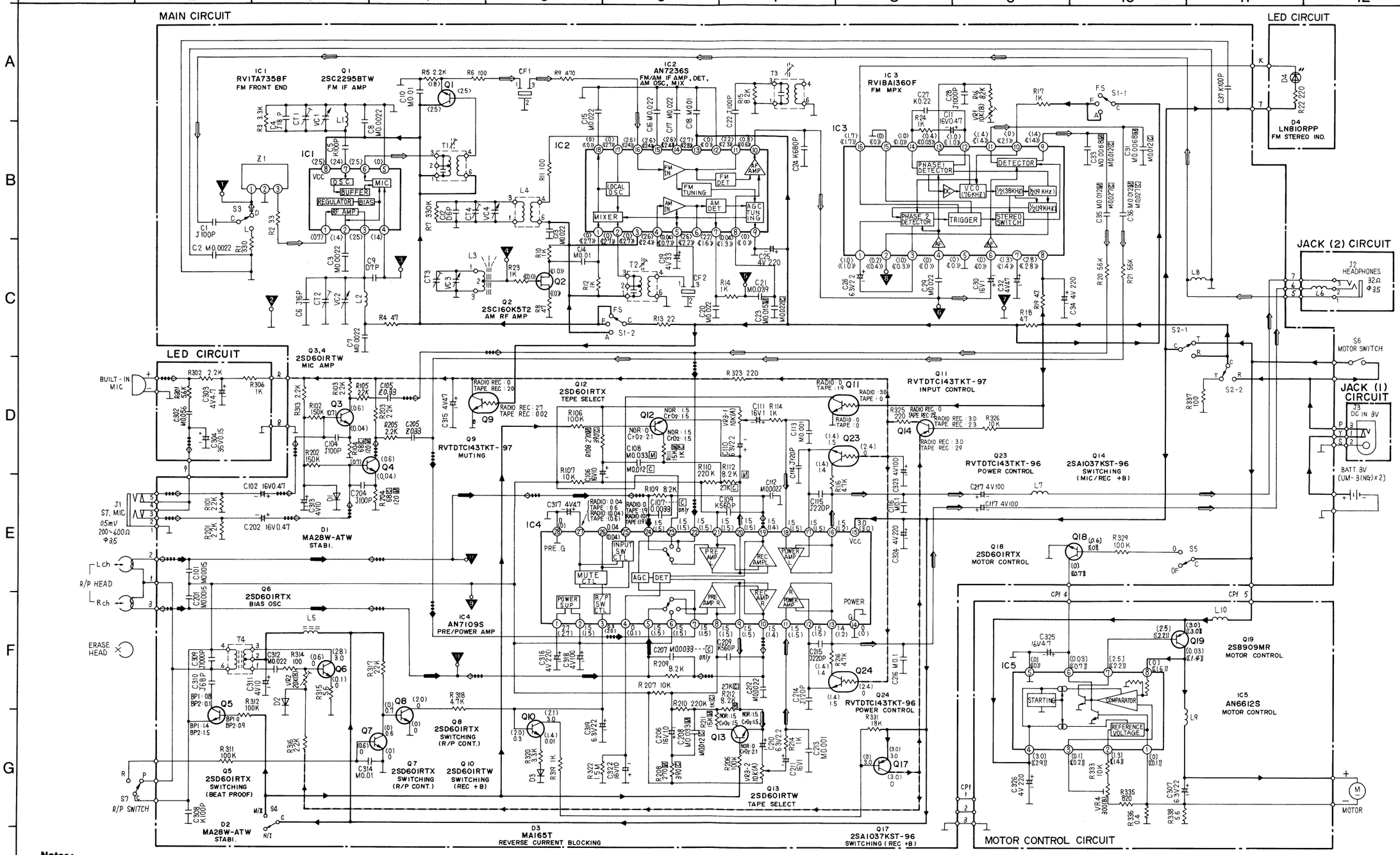
ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98MHz, 60dB (CW) Connect to test point ① through FM dummy antenna. Negative side to test point ②.	③...(+) ①...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±100Hz) reading on electronics counter.

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

D

SCHEMATIC DIAGRAM

Main (Tape & Radio) Signal Line
Playback Signal Line
Recording Signal Line
Recording & Radio (FM) Signal Line
Radio (FM) Signal Line
+B Line
+B (Recording) Line
[M]... For U.S.A.
[C]... For Canada.



Notes:

1. S1-1, S1-2: Band Selector switch in "FM ST" position. (F.S... FM STEREO, F... FM, A... AM)
2. S2-1, S2-2: Function Selector switch in "TAPE" position. (T... TAPE, R... RADIO)
3. S3: FM Sens switch in "DX" position. (D... DX, L... LOCAL)
4. S4: TAPE/B.P switch in "NOR/I" position. (N/I... NORMAL/I, M/II...METAL/CrO_2/II)
5. S5: Pause switch in "OFF" position. (O... ON, OF... OFF)
6. S6: Motor switch in "OFF" position.
7. S7: Playback/Record switch in "PLAY" position. (P... PLAY, R... REC)
8. VR1: FM VCO adjustment VR.
9. VR2: Bias OSC adjustment VR.
10. VR3-1, VR3-2: Volume control VR.
11. VR4: Tape speed adjustment VR.
12. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    No mark... Playback position, ( )... Record position,
    〈 〉... Radio (FM) position, 《 》... Radio (AM) position,
    [ ]... Pause "ON" position, [[ ]]... Pause "OFF" position
13. Battery current: No signal 28mA
    Maximum Out Put
    Radio (FM, Vol: MAX)..... 44mA
    Tape (PLAY, Vol: MAX) 225mA
    Tape (REC, Vol: Max)..... 246mA
14. The supply parts number is described alone in the replacement parts list.

• This schematic diagram may be modified at any time with the development of new technology.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

LED CIRCUIT BOARD

(FM STEREO IND.)

MICROPHONE

R/P HEAD

RED WHT BLU

BRN
ORG
GRY
BLU
RED
GRY

VOLUME

ST MIC

BAND

Q3 Q4 FM SENS IC3 TAPE/B.P SELECTOR Q12 PAUSE Q11

Q14
Q23
IC4
Q24
Q17
Q18

Q9
Q2
IC1
Q1
IC2
Q7
Q8
Q10
Q6
Q5
Q13

MAIN CIRCUIT BOARD

BAR ANTENNA

BLK WHT RED

JACK (2) CIRCUIT BOARD

(HEADPHONES)

BRN ORG BLK

S7 R/P SWITCH

JACK (1) CIRCUIT BOARD

YEL
BLU
PNK

DC IN 3V

S6 MOTOR SWITCH

BLU
BLU

BATT. 3V (UM-3(NG)×2)

MOTOR

BLK
RED

IC5

Q19

MOTOR CONTROL CIRCUIT BOARD

NOTES:

BLK .....Black	ORG .....Orange
BLU .....Blue	PNK.....Pink
BRN.....Brown	RED.....Red
GRY.....Gray	SLD .....Shield Wire
GRN .....Green	VLT.....Violet
L. BLU ....Light Blue	WHT .....White
NIL.....No Color Mark	YEL.....Yellow

IC1, 5

IC2

IC3

IC4

Q1, 3~15, 17, 18, 23, 24

Q2

Q19

D1, 2, 6

D3

D4

=Resistor
=Jumper Wire

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	Headphone jack (32Ω)	Maximum output.	Azimuth screw	Playback mode Tape/B.P. switch → NOR/I (Refer to Fig. 4)
Tape speed	QZZCWAT (3kHz)	Headphone jack (32Ω)	3020±10Hz	VR4	Playback mode
Bias Current OSC	——	⑨...(Rch/Lch) ⑩...Rch ⑪...Lch (Refer to Fig. 5)	3.9mV	VR2	Record mode Tape/B.B. switch → CrO_2/II Measure the voltage of the Left and Right channels of the R/P Head, and adjust the lower of the two to 3.9mV with VR2.

ALIGNMENT POINT

* Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

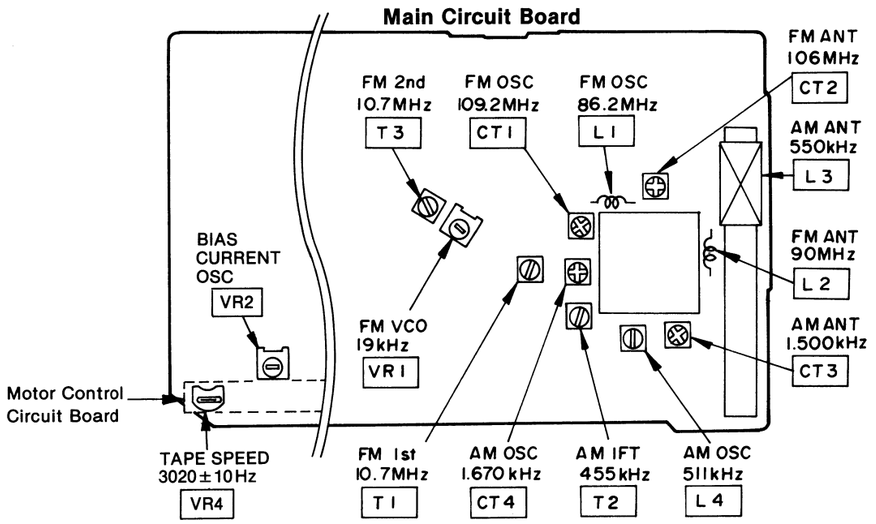


Fig. 1

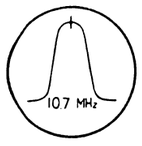


Fig. 2

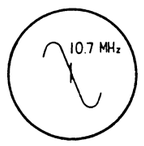


Fig. 3

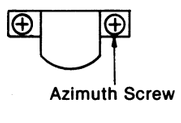


Fig. 4

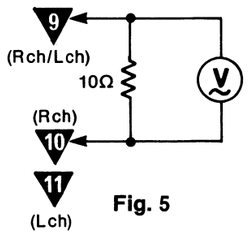


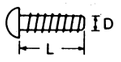
Fig. 5

Screw Dimensions Quick Reference

- **Dimensions**

XSN 3 + 10 = Pan head machine screw, 3mm in diameter, 10mm long.

Type/Diameter/Length



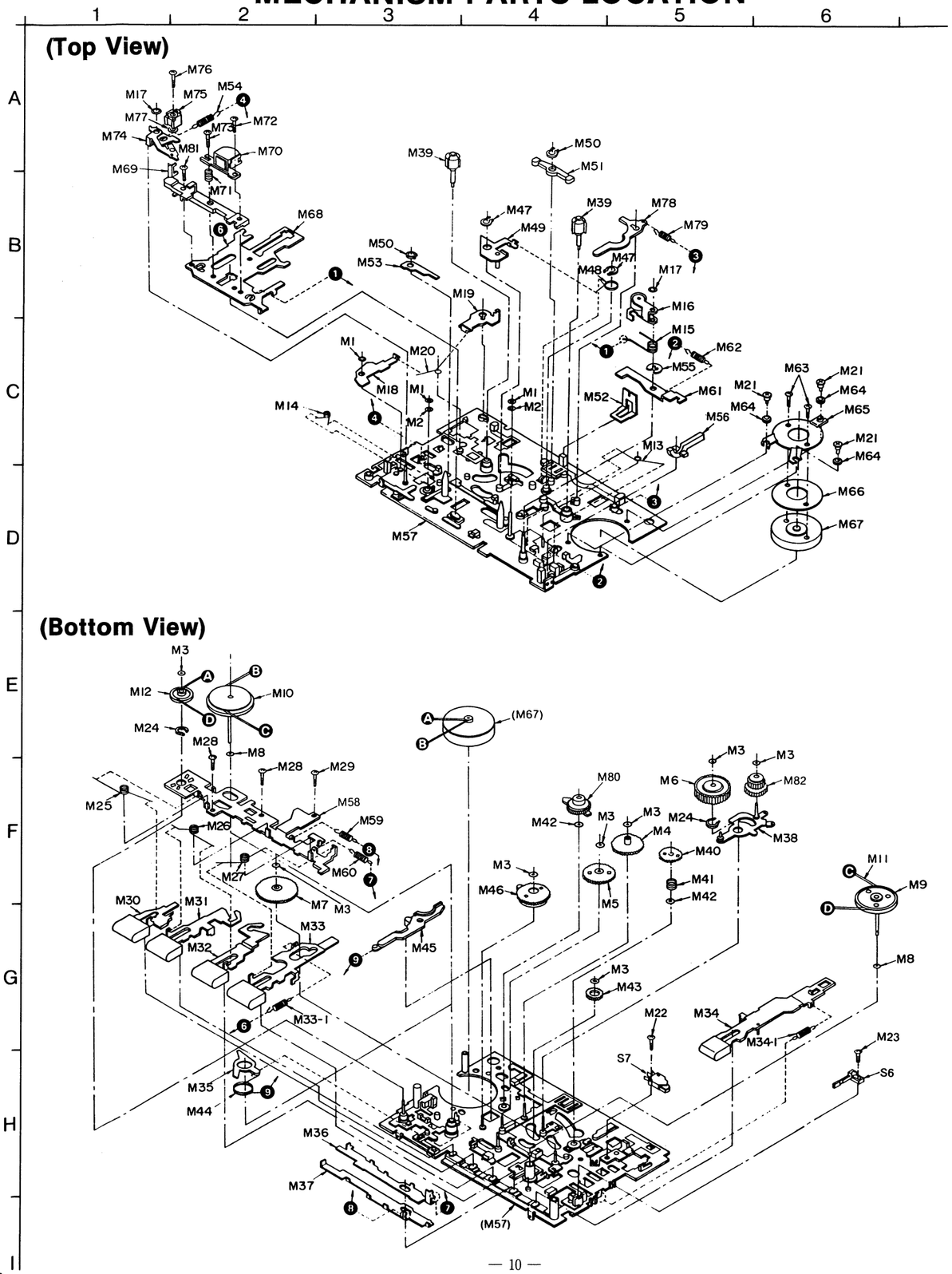
- **Types**

Precision machine screw	Machine screw	Tapping/Tap-tight machine screw
XQC Flat head	XSB Binding head	XTB Binding head
XQG Oval fillister head	XSC Oval countersunk head	XTC Oval countersunk head
XQH Flat fillister head	XSH Flat fillister head	XTN Pan head
XQS Flat head	XSN Pan head	XTS Flat head
	XSS Flat head	

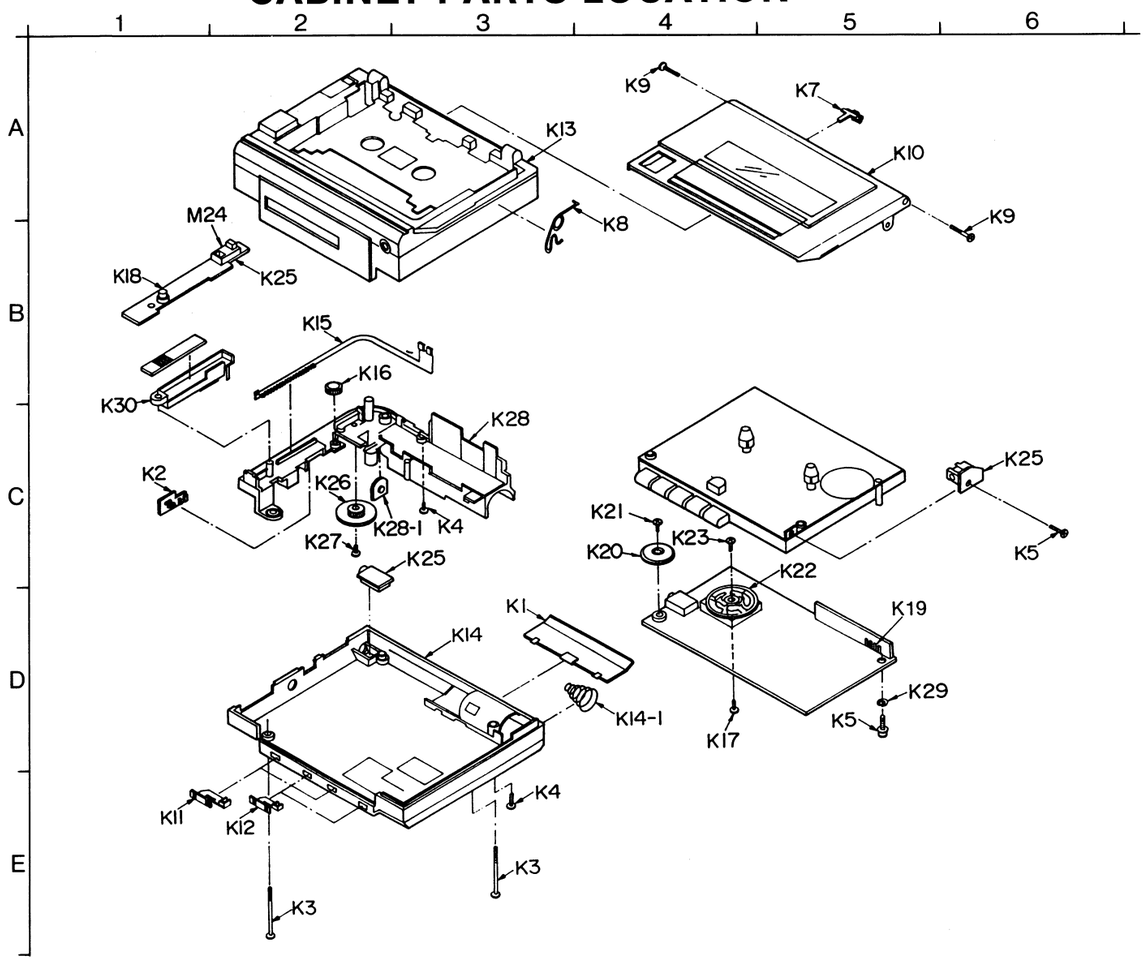
Specifications

Playback torque	22~45g•cm
Fast Forward torque	50~90g•cm
Rewind torque	50~90g•cm
Wow and flutter	Less than 0.35% (WRMS)

MECHANISM PARTS LOCATION



CABINET PARTS LOCATION



CABINET PARTS LIST

Note: The leter in square brackets in the Ref. No. column indicates the shipping destination. [M]... For U.S.A. [C]... For Canada.

Ref. No.	Part No.	Part Code	Description
CABINET PARTS			
K1	RKKK9Z	015 820 8460 7	BATTERY COVER (BK)
K2	RBDK29ZA	015 700 4569 0	KNOB
K3	XTN2+25JZ	005 501 4707 6	TAPPING SCREW
K4	XTN2+6J	005 501 1524 3	SCREW
K5, K6	XQN17+C3	005 500 3443 0	SCREW
K7	RDPK517ZA-0	015 710 0751 4	POINTER
K8	RUWK72ZA	015 727 0971 3	LEAF SPRING
K9	QHQ1362K	005 500 4277 2	SCREW
K10	RYGXSR25M	015 820 8744 8	CASSETTE LID ASS'Y
K11	RBDK27ZA-0	015 700 4567 2	KNOB
K12	RBDK28ZA-0	015 700 4568 1	KNOB
K13	RYMXSR25M	015 800 6560 4	FRONT CABINET ASSY
K14	RYFXSR25M	015 802 3047 8	REAR CABINET ASSSY
K14-1	RJCK70002ZA	003 413 1630 9	BATTERY TERMINAL
K15	RDPK516ZA	015 710 0750 5	POINTER
K16	RDGK5612ZA	015 745 1110 4	GEAR
K17	XTW2+6S		SCREW
K18	RJM168ZA	001 275 0640 5	MICROPHONE
K19	RJSK5M1ZA	003 400 7656 6	SOCKET
K20	RBT237ZA-2	015 700 4571 6	KNOB
K21	XQN17+C4	005 500 4608 3	SCREW
K22	RDGK5613ZA	015 745 1111 3	GEAR
K23	XQN17+C3	005 500 3443 0	SCREW
K24	RMPK10ZA	015 652 1435 2	HOLDER
K25	RUPK86ZA	003 483 2358 0	PC.BOARD W/COMPONENT
K26	RBTK11ZA	015 700 4570 7	KNOB
K27	XTW2+6S		SCREW
K28	RZAXSR25M	015 630 2461 8	CHASSIS
K28-1	RJCK30001YA	003 413 1628 3	BATTERY TERMINAL
K29	RHEK61ZA		WASHER
K30	RMAK502ZA	015 632 6650 9	ANGLE
ACCESORIES			
A1 (M)	RP9531MR	015 819 0337 2	HEADPHONES
A1 (C)	RP9535SM	001 263 0478 3	HEADPHONE
A2	RKE447Z4	015 846 2820 5	BELT CRIPER
A3 (M)	RQXK4056ZA	015 910 3149 0	OPERATING INSTRUCTIONS
A3 (C)	RQXK4063ZA	015 983 4976 2	OPERATING INSTRUCTIONS
PACKINGS			
P1	RPKK1065ZA	015 972 2020 4	GIFT BOX
P2	RPNK3034ZA	015 977 3423 0	CUSHION
P3	RPEK131ZA	015 977 3421 2	CUSHION
P4	XZB20X20A03H	015 979 0415 2	PACKING SHEET
P5	RPEK129ZA	015 977 3422 1	CUSHION

RESISTOR & CAPACITOR PARTS LIST

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)
ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Resistor Type		Wattage	Tolerance
ERD:	Carbon Resistor	10 : 1/8W	F : ±1%
ERC:	Solid Resistor	25 : 1/4W	G : ±2%
ERF:	Incombustible Box-Shaped Wire-Wound Resistor	50 : 1/2W 18 : 1/8W 14 : 1/4W 12 : 1/2W	J : ±5% K : ±10% H : ±20%
ERG:	Metal Oxide-Film Resistor	1 : 1W 2 : 2W	
ERM:	Wire-Wound Resistor	3 : 3W	
ERO:	Superstable Metal Film Resistor	S1 : 1/2W S2 : 1/4W 6G : 1/10W 8G : 1/8W	
ERX:	Metal-Film Resistor		
RRJ: ERJ:	Chip Resistor		

※ Capacity are in microtarads (μF) unless specified otherwise, P=Pico-farads.
※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity
ECEA	50	M	R47	
Type	Voltage	Peculiarity	Value (0.47μF)	

Capacitor Type		Voltage	Tolerance
ECCD:	Ceramic Capacitor (Chitacon)	(ECCD, ECKD Type) 1H : 50V DC 2H : 500V DC	K : ±10% M : ±20%
ECKD:	Ceramic Capacitor (Chitabari)	(ECFD Type) C : 12V DC D : 25V DC	Z : +80% −20
ECFD:	Semiconductor Ceramic Capacitor	E : 50V DC (ECQ Type)	J : ±5% G : ±2%
ECE□:	Electrolytic Capacitor	05 : 50WV DC 1 : 100WV DC	F : ±1%
ECS□:	Tantalum Fixed Electrolytic Capacitor	(ECE, ECS Type) 0G : 4V 0J : 6.3V	C : ±0.25pF D : ±0.5pF
ECQ□:	Polystyrenc Film Capacitor	1A : 10V 1C : 16V 1E : 25V 1V : 35V	F : ±1pF
ECQS:	Polystyrene Film Capacitor	1H : 50V 1J : 63V 2A : 100V	
ECQS:	Polypropylene Film Capacitor		
ECQV:	T.F Capacitor		
ECU□: RCU□:	Chip Capacitor		
ECBT:	Cylindrical Ceramic Capacitor		

Note: The leter in square brackets in the Ref. No. column indicates the shipping destination.
[M]... For U.S.A. [C]... For Canada.

Ref. No.	Part No.	Part Code
CAPACITORS		
C1	RCUV1H101K	
C2	RCBS1C222MX	001 103 8858 6
C3	RCUV1H222MD	
C4	RCUV1H180KC	
C5	RCUV1H101K	
C6	RCUV1H160J	001 103 8964 5
C7	RCBS1C222MX	001 103 8858 6
C8	RCUV1H222MD	
C9	RCUV1H070DC	
C10	RCUV1E103MD	
C11	ECSE1CT474	001 123 0640 2
C12	RCUV1H060D	001 103 8962 7
C13	RCUV1E223MD	
C14	RCUV1E103MD	
C15, C16	RCUV1E223MD	
C17	RCUV1E223MD	
C18	RCUV1E103MD	
C19	ECEA0GKS330L	001 120 5908 8
C20	RCUV1E223MD	
C21	ECUV1E333MD	
C22	RCUV1H101K	
C23 (M)	RCUV1E153MD	
C23 (C)	RCUV1E223MD	
C24	RCUV1H681KB	
C25	ECEA0GKS221L	001 120 5907 9
C26	ECSE0JT225SG	001 123 0802 2
C27	ECUV1C224KR	001 103 8958 3
C28	ECUV1H102KC	001 103 6755 0
C29	RCUV1E223MD	
C30	ECSE1CT105SL	001 123 0812 0
C31 (C)	RCUV1E123KB	001 103 8961 8
C31 (M)	RCUV1H682KB	001 103 7071 7
C32	ECSE0GT475	001 123 0636 8
C33 (C)	RCUV1E123KB	001 103 8961 8
C33 (M)	RCUV1H682KB	001 103 7071 7
C34	ECEA0GKS221L	001 120 5907 9
C35 (C)	ECUV1E273MB	001 103 8960 9
C35 (M)	ECUV1H123MD	
C36 (C)	ECUV1E273MB	001 103 8960 9
C36 (M)	ECUV1H123MD	
C37	RCUV1H101K	
C101	RCUV1H152KB	001 103 8691 1
C102	ECUV1C334ZF	001 103 8959 2
C103	RRJ6GCJ100TE	001 151 6749 8
C104	RCUV1H101K	
C105	ECUV1C334ZF	001 103 8959 2
C106	ECEA1CKS100	001 120 3874 9
C107 (C)	RCUV1H332MD	
C108 (C)	RCUV1E123KB	001 103 8961 8
C108 (M)	RCUV1E333MD	
C109	RCUV1H561KB	
C110	ECSE0JT225SG	001 123 0802 2
C111	ECSE1CT105SL	001 123 0812 0
C112	RCUV1H222MD	
C113	RCUV1H102MD	
C114	RCUV1H121J	001 103 8963 6
C115	RCUV1H221K	
C116	ECUV1E104MD	001 103 6960 7
C117	ECEA0GKS101L	001 120 5906 0
C201	RCUV1H152KB	001 103 8691 1
C202	ECUV1C334ZF	001 103 8959 2
C203	RRJ6GCJ100TE	001 151 6749 8
C204	RCUV1H101K	
C205	ECUV1C334ZF	001 103 8959 2
C206	ECEA1CKS100	001 120 3874 9
C207 (C)	RCUV1H332MD	
C208 (C)	RCUV1E123KB	001 103 8961 8
C208 (M)	RCUV1E333MD	
C209	RCUV1H561KB	
C210	ECSE0JT225SG	001 123 0802 2
C211	ECSE1CT105SL	001 123 0812 0
C212	RCUV1H222MD	
C213	RCUV1H102MD	
C214	RCUV1H121J	001 103 8963 6
C215	RCUV1H221K	
C216	ECUV1E104MD	001 103 6960 7
C217	ECEA0GKS101L	001 120 5906 0
C302	ECUV1E333MD	
C303	ECSE0GT106	001 123 0567 4
C304	ECUV1E683MD	
C306	ECSE0GT106	001 123 0567 4
C307	ECEA0JKS220	001 120 2530 4
C308	RCUV1H101K	
C309	ECUV1H102KC	001 103 6755 0
C310	RCUV1H680H	001 103 8965 4
C311	ECSE0GT106	001 123 0567 4
C312	RCUV1E223MD	
C313	ECSE0GT106	001 123 0567 4
C314	RCUV1E103MD	
C315	ECEA0GKS470L	001 120 5909 7
C316	ECEA0GKS221L	001 120 5907 9
C317	ECSE0GT475	001 123 0636 8
C318	ECEA0GKS101L	001 120 5906 0
C319	ECEA0JKS220	001 120 2530 4
C322	ECEA0GKS330L	001 120 5908 8
C323	ECEA0GKS101L	001 120 5906 0
C324	ECEA0GKS221L	001 120 5907 9
C325	ECEA1CKS4R7	001 120 5583 9
C326	ECEA0GKS221L	001 120 5907 9
RESISTORS		
J101, J102	RRJ6GCJ100TE	001 151 6749 8
J103, J104	RRJ6GCJ100TE	001 151 6749 8
J105, J106	RRJ6GCJ100TE	001 151 6749 8
J107, J108	RRJ6GCJ100TE	001 151 6749 8
J109, J110	RRJ6GCJ100TE	001 151 6749 8
J111, J112	RRJ6GCJ100TE	001 151 6749 8
J113, J114	RRJ6GCJ100TE	001 151 6749 8
J115, J116	RRJ6GCJ100TE	001 151 6749 8
J117, J118	RRJ6GCJ100TE	001 151 6749 8
J119, J120	RRJ6GCJ100TE	001 151 6749 8
J121, J122	RRJ6GCJ100TE	001 151 6749 8
J123	RRJ6GCJ100TE	001 151 6749 8

D

Ref. No.	Part No.	Part Code
R1	RRJ6GCJ331TE	
R2	RRJ6GCJ330	001 152 5882 3
R3	RRJ6GCJ332TE	
R4	RRJ6GCJ470TE	
R5	RRJ6GCJ222TE	
R6	RRJ6GCJ101TE	
R7	RRJ6GCJ334TE	001 151 6699 1
R8	ERD16TJ470T	
R9	RRJ6GCJ471TE	
R10	RRJ6GCJ102TE	
R11	ERD16TJ101T	
R12	RRJ6GCJ102TE	
R13	RRJ6GCJ220TE	
R14	RRJ6GCJ102TE	
R15, R16	RRJ6GCJ822	001 152 5871 6
R17	RRJ6GCJ102TE	
R18	ERD16TJ470T	
R19	RRJ6GCJ470TE	
R20, R21	ERD16TJ473T	
R22	RRJ6GCJ331TE	
R23, R24	RRJ6GCJ102TE	
R101	RRJ6GCJ222TE	
R102	RRJ6GCJ154	001 152 5880 5
R103	RRJ6GCJ222TE	
R104	ERJ6GCJ121	001 151 3938 7
R104	RRJ6GCJ680TE	001 151 6510 9
(C)		
R105	RRJ6GCJ222TE	
R106	RRJ6GCJ104TE	
R107	RRJ6GCJ103TE	001 151 6750 5
R108	ERJ6GCJ271	001 151 3958 3
(M)		

Ref. No.	Part No.	Part Code
R108	RRJ6GCJ391TE	001 151 6700 5
(C)		
R109	RRJ6GCJ822	001 152 5871 6
R110	RRJ6GCJ224TE	
R111	ERJ6GCJ102	001 151 3934 1
(C)		
R111	RRJ6GCJ153	001 152 5879 8
(M)		
R112	ERJ6GCJ272	001 151 3959 2
(C)		
R112	RRJ6GCJ822	001 152 5871 6
(M)		
R114	ERD16TJ102T	
R116	RRJ6GCJ472TE	001 151 6751 4
R201	RRJ6GCJ222TE	
R202	RRJ6GCJ154	001 152 5880 5
R203	RRJ6GCJ222TE	
R204	ERJ6GCJ121	001 151 3938 7
(M)		
R204	RRJ6GCJ680TE	001 151 6510 9
(C)		
R205	RRJ6GCJ222TE	
R206	RRJ6GCJ104TE	
R207	RRJ6GCJ103TE	001 151 6750 5
R208	ERD16TJ271	001 152 2742 6
(C)		
R208	ERD16TJ391T	001 152 6608 5
(M)		
R209	RRJ6GCJ822	001 152 5871 6
R210	RRJ6GCJ224TE	
R211	ERJ6GCJ102	001 151 3934 1
R211	RRJ6GCJ153	001 152 5879 8

Ref. No.	Part No.	Part Code
(M)		
R212	ERJ6GCJ272	001 151 3959 2
(C)		
R212	RRJ6GCJ822	001 152 5871 6
(M)		
R214	ERD16TJ102T	
R216	RRJ6GCJ472TE	001 151 6751 4
R301	RRJ6GCJ562	001 152 5870 7
R302	RRJ6GCJ222TE	
R306	RRJ6GCJ102TE	
R311, R312	RRJ6GCJ104TE	
R313	RRJ6GCJ222TE	
R314	RRJ6GCJ101TE	
R315	RRJ6GCJ5R6TE	001 151 6757 8
R316	RRJ6GCJ222TE	
R317	ERD16TJ223T	
R318	RRJ6GCJ472TE	001 151 6751 4
R319	RRJ6GCJ102TE	
R320	RRJ6GCJ332TE	
R322	RRJ6GCJ155TE	001 151 6756 9
R323, R325	RRJ6GCJ221TE	001 151 6507 4
R326	RRJ6GCJ103TE	001 151 6750 5
R328	RRJ6GCJ223TE	
R329	RRJ6GCJ100TE	001 151 6749 8
R329	RRJ6GCJ104TE	
R331	RRJ6GCJ183TE	001 151 6506 5
R333	ERSB10J103T	001 151 6793 4
R335	RRJ6GCJ681TE	
R336	ERSB39KR30T	001 151 6794 3
R337	ERD16TJ101T	
R338	ERD16TJ6R8T	001 152 6709 1

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Part Code	Description
INTEGLATED CIRCUITS			
IC1	RVITA7358F	001 060 7867 5	IC
IC2	AN7236S	001 060 8857 3	IC
IC3	RVIBA1360F	001 060 4507 8	INTEGRATED CIRCUIT
IC4	AN7109S	001 061 4501 9	INTEGRATED CIRCUIT
IC5	AN6612S	001 060 3744 1	IC
TRANSISTORS			
Q1	2SC2295B	001 030 1266 6	TRANSISTOR,
Q2	2SK160K5	001 030 1967 4	TRANSISTOR,
Q3, Q4	2SD601R	001 030 3074 4	TRANSISTOR,
Q5, Q6	2SD601R	001 030 3074 4	TRANSISTOR,
Q7, Q8	2SD601R	001 030 3074 4	TRANSISTOR,
Q9	RVTDTC143TK	001 032 5441 3	TRANSISTOR,
Q10	2SD601R	001 030 3074 4	TRANSISTOR,
Q11	RVTDTC143TK	001 032 5441 3	TRANSISTOR,
Q12, Q13	2SD601R	001 030 3074 4	TRANSISTOR,
Q14	2SA1037KS	001 030 5609 7	TRANSISTOR
Q15	RVTDTC114YK		TRANSISTOR
Q17	2SA1037KS	001 030 5609 7	TRANSISTOR
Q18	2SD601R	001 030 3074 4	TRANSISTOR,
Q19	2SB909MR	001 030 5363 0	TRANSISTOR
Q23, Q24	RVTDTC143TK	001 032 5441 3	TRANSISTOR,
DIODES			
D1, D2	MA28WA	001 032 4930 5	DIODE,
D3	MA165	001 032 0494 0	DIODE
D4	LN810RPP	001 032 9809 5	DIODE, GAASP
D6	MA152K	001 032 0486 0	DIODE,
COILS			
L1	RL04Y148	001 211 3722 8	COIL
L2	RL04Y78	001 211 0962 6	OSILLATOR COIL
L3	RLF2N19-M	001 214 1594 1	BAR ANTENNA
L4	RL02A3	001 210 9986 7	COIL
L5	RLQZP101K	001 270 1191 0	COIL
L6, L7	RLQZB1R0K	001 210 9845 9	COIL
L8	RLQZB1R0K	001 210 9845 9	COIL

Ref. No.	Part No.	Part Code	Description
L9, L10	RLQZ5002	001 210 9953 6	CHOKE COIL
TRANSFORMERS			
T1	RLI4A27	001 215 2478 5	I.F.TRANSFORMER
T2	RLI2A37	001 211 3109 3	I.F.TRANSFORMER
T3	RLI4A27	001 215 2478 5	I.F.TRANSFORMER
T4	RL09A4	001 210 8716 1	OSCILLATOR COIL
VARIABLE CAPACITORS			
VC1, VC2	RCV4LC3R2Q	001 141 0435 3	VARIABLE CAPACITOR
VC3, VC4	RCV4LC3R2Q	001 141 0435 3	VARIABLE CAPACITOR
TRIMMER CAPACITORS			
CT1, CT2	ECRLA010A12	001 142 0605 8	TRIMMER CAOACITOR
CT3, CT4	ECRLA010A12	001 142 0605 8	TRIMMER CAOACITOR
VARIABLE RESISTORS			
VR1	EVNA6AA00B14	001 180 0396 4	SEMI VARIABLE RESISTOR
VR2	EVNA6A00B24	001 180 0398 2	SEMI VARIABLE RESISTOR
VR3	EVUBAAT50A14	001 180 2181 9	CARBON VARIABLE RESISTOR
VR4	EVNB6AA00B32	001 180 3140 4	SEMI FIXED RESISTOR
FILTERS			
CF1	QCRZ107MA5	001 241 0445 4	CERAMIC FILTER
CF2	RVFPFA455A	001 241 0645 8	CERAMIC FILTER
COMPONENTS COMBINATION			
Z1	RXABPMB8	001 230 1488 0	COMPONENTS COMBINATION
SWITCHES			
S1	RSS3B32Z	003 431 3139 5	SLIDE SWITCH
S2	RSS2B38YA-A	003 431 3799 5	SLIDE SWITCH
S3, S4	RSS2A38YA-A		SLIDE SWITCH
S5	RSS2A38YA-A		SLIDE SWITCH
S6	RSH1A53Z	003 435 4529 1	LEAF SWITCH
S7	RSH2A22Z	003 435 4558 6	PUSH SWITCH
JACKS			
J1	RJJD5S2ZA-C	003 400 7494 6	HEAD
J2	RJJD3S5Z	003 400 7041 1	JACK
J3	RJJB2Z	003 400 5270 8	JACK

MECHANISM PARTS LIST

Ref. No.	Part No.	Part Code	Description
TAPE DECK			
MECHANICAL PARTS			
M1	QBW2140		WASHER
M2	RNWK212Z	005 513 3391 4	WASHER
M3	QBK92030	005 513 3065 5	WASHER
M4	RNGK21ZB	015 745 1068 9	GEAR
M5	RNGK15ZA	015 745 1045 6	GEAR
M6	3NGAKFW19ZB	015 745 1070 5	GEAR ASS'Y
M7	RNGK20ZA	015 745 1046 5	GEAR
M8	RNWK2011ZA		WASHER
M9	2DWAKSR25ZA		WHEEL
M10	1DWAKSR25ZA	015 756 0455 5	WHEEL
M11	RDVK23ZA	015 754 0337 0	BELT
M12	QDP1948-2	015 741 3486 7	PULLEY
M13	RUWK40ZA	015 726 2947 0	SPRING
M14	RUWK41ZA	015 726 2948 9	SPRING
M15	RUWK38ZA	015 726 2945 2	SPRING
M16	11NLAKFW19ZA	015 718 4484 8	PINCH ROLLER
M17	QBK92008	005 513 0693 5	WASHER
M18	RNLK85ZA	015 718 4615 5	LEVER
M19	RNLK70ZA	015 718 4613 7	LEVER
M20	RUWK58ZA	015 727 0959 9	LEAF SPRING
M21	QHQ1304	005 500 0447 8	SCREW
M22	XTNV17+6Z	005 501 2133 0	SCREW
M23	XQN17+C6	005 500 4610 9	SCREW
M24	XUEV4VW		C RING
M25	RUWK57ZA	015 727 0960 6	LEAF SPRING
M26	RUWK56ZA	015 727 0961 5	LEAF SPRING
M27	RUWK55ZA	015 727 0962 4	LEAF SPRING
M28	XQS17+A4FN	005 500 4640 3	SCREW
M29	XQN17+C5	005 500 3093 2	SCREW
M30	7NRAKSR25ZA	015 712 2427 5	ROD
M31	6NRAKSR25ZA	015 712 2428 4	ROD
M32	5NRAKSR25ZA	015 712 2426 6	ROD
M33	4NRAKSR25ZA	015 712 2425 7	ROD
M33-1	RUDK20ZA	015 726 2933 6	SPRING
M34	3NRAKSR25ZA	015 712 2424 8	ROD
M34-1	RUDK32ZA	015 726 3028 6	COIL SPRING
M35	RNLK46ZA	015 718 4467 9	PLATE
M36	RNRK31ZA	015 712 2360 7	ROD
M37	RNRK38YA	015 712 2414 0	ROD
M38	5NLAKFW19ZA	015 718 4475 9	LEVER

Ref. No.	Part No.	Part Code	Description
M39	RDMK2ZA	015 765 0553 3	REEL TABLE
M40	RNGK14ZA	015 745 1044 7	GEAR
M41	RUQK27ZB	015 726 3024 0	SPRING
M42	RNWK2812ZA		WASHER
M43	RNGK25ZB		GEAR
M44	RUWK34ZA	015 726 2941 6	SPRING
M45	RNLK57ZA	015 718 4473 1	LEVER
M46	1DRAKFW19ZA	015 741 3476 9	GEAR ASS'Y
M47	XUEV35VW		C RING
M48	RUWK46ZB	015 727 0956 2	SPRING
M49	2NLAKFW19ZA	015 718 4466 0	IDLER LEVER ASS'Y
M50	XUEV25VW	005 512 0283 4	C RING
M51	RNLK54ZA	015 718 4470 4	LEVER
M52	QBP2041	015 727 0927 7	SPRING
M53	RNLK67ZA	015 718 4481 1	LEVER
M54	RUDK22ZA	015 726 2935 4	SPRING
M55	XUC32FP-S		E RING
M56	RNLK82ZA	015 718 4614 6	LEVER
M57	3UAAKSR25ZA	015 630 2462 7	CHASSIS
M58	RUEK6XA		PLATE
M59	RUDK15ZA	015 726 2928 3	SPRING
M60	RUDK16ZA	015 726 2929 2	SPRING
M61	RNLK86ZA	015 718 4616 4	LEVER
M62	RUDK33ZA	015 726 3029 5	COIL SPRING
M63	XQN14+C2	005 500 4563 9	SCREW
M64	QBG1676	015 653 0426 2	MOTOR RUBBER
M65	RULK19ZA	015 632 6637 6	ANGLE
M66	RMCK28ZA	015 601 1103 4	SHIELD PLATE
M67	1JQAKSR25ZA	002 310 2468 7	MOTOR
M68	RUAK27ZC	015 630 2448 5	PLATE, HEAD BASE
M69	RUEK5ZA	015 632 6567 3	SPACER
M70	RJH4C55GZA1		MAGNETIC HEAD
M71	RUQK29ZA	015 726 2937 2	SPRING
M72, M73	XSN2+5	005 500 1291 6	SCREW
M74	RNLK62ZA	015 718 4479 5	LEVER
M75	RJH2C01XX	001 270 1110 7	HEAD, ERASE
M76	XSB2D7	005 500 1001 0	SCREW
M77	QBK90043	005 513 2099 9	WASHER
M78	RNLK55ZA	015 718 4471 3	LEVER
M79	RUDK12ZA	015 726 2925 6	SPRING
M80	2NGAKFW19ZC	015 765 0554 2	REEL TABLE ASS'Y
M81	XQN2+A3		SCREW
M82	1NGAKFW19ZA	015 745 1050 9	GEAR

KTB
H.M/(A.T/I.M) MC Printed in Japan Ⓗ